

PharmaKeep®



Humidity Neutral Oxygen Scavengers

PharmaKeep® is an innovative line of polymer-based oxygen scavenging capsules and packets developed and distributed jointly by Colorcon (formerly Airnov) and Mitsubishi Gas Chemical Company, Inc. (MGC).

These oxygen scavengers support shelf life and help maintain the efficacy of pharmaceutical and nutraceutical products by protecting against oxygen degradation and oxidative reactions.

Humidity neutral:

PharmaKeep® is humidity neutral, absorbing oxygen at either low or high relative humidity levels and can be used in conjunction with a desiccant. Compared to iron based oxygen scavengers, PharmaKeep® will not release moisture to the drug product.

High speed insertion:

Due to their rigidity, PharmaKeep® capsules can be used on high-speed insertion machine, typically feeding 300 to 600 capsules per minute. Packets can also be automated by using roll form packets.

Full protection:

PharmaKeep can be paired with OXYNOV® oxygen barrier bottles for an efficient protective package solution.

Degradation avoidance:

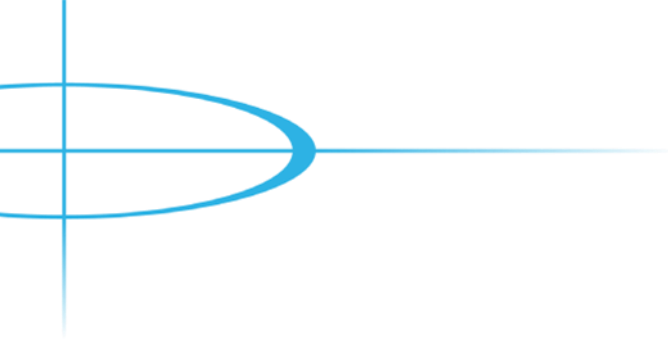
With PharmaKeep®, the chemical and physical degradation of drug products can be mitigated, sometimes visible in extreme color change, especially with uncoated tablets.



Tablets Packaged with PharmaKeep®



Tablets Packaged without PharmaKeep®



Oxidative degradation, as well as moisture, is a major pathway for degradation of pharmaceuticals, probiotics and other healthcare products during production, isolation processes and storage.

Various configurations of PharmaKeep® capsules and packets are available to meet different packaging needs.

PharmaKeep® capsules (CD) and PharmaKeep® packets (KD) have equivalent absorbing function and perform as 2-in-1 moisture and oxygen absorbing products.

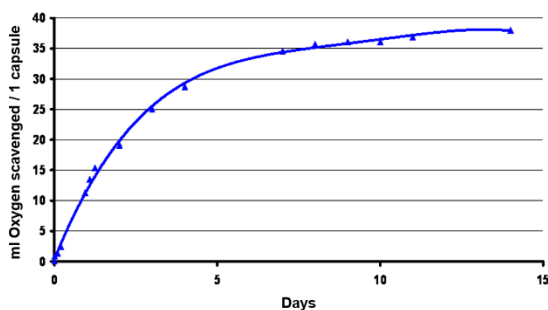
Specified Performance of PharmaKeep products

(Evaluated at 25°C/ 75% RH, 7 days; refer to our measurement method of PharmaKeep® performances)

Capsule CD-1 G & Packet KD-10S: >10 mL oxygen & >0.07 g moisture

Capsule CD-2.15 G & Packet KD-20: >20 mL oxygen & >0.15 g moisture

Packet KD-400: >400 mL oxygen & > 3 g moisture



Oxygen absorption capacity is specified at 20 ml of O₂ per CD-2.15g at day 7.



PharmaKeep® oxygen scavengers are available in capsule and packet configuration.

PharmaKeep® capsules and packets comply with US FDA & EU regulations for use in pharmaceutical and diagnostic applications and are registered in a US-FDA Drug Master File.

Regulatory compliance may vary depending on the country and end-use application, please contact your Colorcon representative for more information.

www.colorcon.com

Colorcon is a global company located in North America, Europe, Middle East, Africa, Latin America, India, and China